

California Regional Water Quality Control Board  
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2003-0097

for

Walsh Oil Company  
18770 North Highway One  
Fort Bragg  
Case No. 1TMC383

Mendocino County

**MONITORING**

1. At the time of sampling each monitoring well (MW), and prior to purging the well for sampling, each MW shall be checked for the presence or absence of free product. If free product is present, the thickness shall be measured to a specificity of at least 0.01-foot increments.
2. At the time of sampling each monitoring well, and prior to purging the well for sampling, the depth to groundwater shall be determined to a specificity of at least 0.01-foot increments. The data generated from the elevation readings shall be referenced to mean sea level.

**SAMPLING**

1. Monitoring wells MW-8, MW-10, MW-11, MW-12, MW-13, MW-14, and MW-16 (Attachment A) shall be sampled quarterly. Monitoring wells MW-9 and MW-15 (Attachment A) shall be sampled semi-annually during the second and fourth quarters.
2. Domestic Wells shown on Attachment B shall be sampled periodically as outlined in Attachment C.
3. Any positive analytical results for a domestic well without a well-head treatment system or from the effluent of a well-head treatment system, shall be confirmed by another sampling event performed within one week of receipt of the initial analytical results. Upon receipt of a confirmed detection above laboratory detection limits the property owner shall be notified immediately and supplied with potable water within 10 days of receipt of the laboratory results. In addition the quarterly sampling shall be extended to domestic wells on properties adjacent to the impacted well.
4. After a well-head treatment system has been installed on an impacted well, sampling of effluent shall be performed monthly and sampling of influent shall be performed

quarterly. After three consecutive months of non-detect results for petroleum hydrocarbons and oxygenates in effluent samples, the effluent sampling frequency for that well shall be reduced to quarterly.

### **LABORATORY ANALYSIS**

1. All testing shall be performed at a laboratory certified by the California Department of Health Services.
2. All water samples collected from MWs shall be analyzed for:
  - Total Petroleum Hydrocarbons (TPH) as gas and diesel
  - Benzene, toluene, ethylbenzene, xylenes (BTEX)
  - Oxygenates including MTBE by EPA Method 8260, with all peaks reported and a maximum detection limit of 0.5 parts per billion.
3. All domestic wells shall be sampled and analyzed oxygenates including MTBE by EPA Method 8260 with all peaks reported and a maximum detection limit of 0.5 parts per billion.

### **REPORTING**

1. A groundwater elevation contour map shall be submitted for each quarterly set of measurements and include:
  - Location of all applicable facilities and residences,
  - Groundwater flow pattern including groundwater gradient contour lines,
  - Location of the monitoring wells and domestic wells, and
  - Location of the former underground tanks.
2. Current and previous analytical results shall be reported in tables which include the following:
  - Identification of well sampled,
  - Date of sample collection,
  - Thickness of any floating product,
  - Constituents and analytical results, and
  - Method detection limits.
3. Each report shall contain copies of chain of custody documents showing the time and date of collection and person collecting, signed laboratory sheets including quality control data, and explanations of analytical anomalies, if any. These supporting documents may be included as appendices to the report.
4. Domestic well samples shall be placed on a 5-day laboratory turn-around time. All positive results shall be faxed to this agency within 24-hours upon receipt of the results by the consultant.

5. Monitoring reports, including quarterly gradient and sampling data, shall be submitted to this office in accordance with the following schedule:

<u>Reporting Period</u>	<u>Due Date</u>
January, February, March	April 15
April, May, June	July 15
July, August, September	October 15
October, November, December	January 15

6. In addition to the customary monitoring report (paper) format submitted to this office, all analytical data and other site-specific information must be submitted over the Internet to the State Water Board Geographical Environmental Information Management System database (Geotracker). The State Water Board has designated the Electronic Deliverable Format (EDF) to meet this objective. Since September 1, 2001, analytical laboratories have been required to submit electronic data using EDF for their analyses of soil and/or groundwater samples. After January 1, 2002, the following site specific information has also been required to be submitted electronically:

- The latitude and longitude of ground water monitoring wells (including any other well or permanent sampling point designated as part of the site monitoring program) accurate to within one meter;
- The surveyed elevation, relative to mean sea level, for any ground water sampled, accurate to within a tenth of a foot;
- Groundwater information, including depth to water, free product presence/thickness and well status; and
- A site map in electronic format showing property boundaries, buildings, and soil and water sampling locations.

These submittals are for all UST sites. For more information about the EDF process, you may log-on to the State Water Board Web site at <http://geotracker.swrcb.ca.gov> and then click on the information link to AB 2886 Electronic Reporting.

Ordered by \_\_\_\_\_

Susan A Warner  
Executive Officer

August 7, 2003

(FBOM&R)